



Name _____ Per _____
Mrs. Doolan /Math6

5-4/5-5 Fractions in Simplest Form and Greatest Common Factor:
The Ladder Day 2



Objective: to learn to express (name) fractions in simplest form.

Fraction: A number describing part of a whole when the whole is cut into equal pieces.

Denominator: the bottom number in a fraction; it tells how many equal parts one whole is divided into.

Numerator: The top number in a fraction; it tells how many parts you have or are talking about.

Equivalent Fractions: Two fractions naming the same amount.

Simplest Form: the name used when the greatest common factor of the numerator and denominator is the factor of "1."

Greatest Common Factor: the largest whole number which evenly divides both the numerator and the denominator.

To solve for simplest form we used to:

♣♣ To change a fraction to lowest/simplest terms, you must divide both numerator *and* denominator evenly by the same number. Use your divisibility rules and your EMERGING NUMBER FLUENCY to find common factors. Using the GCF will simplify the process.

EX #1: Write $\frac{24}{60}$ in lowest terms: Reduce by common factors until the GCF of the numerator and denominator is 1. That's when a fraction is in its lowest terms.

First, $\frac{24}{60} \div 4 = \frac{24 \div 4}{60 \div 4} = \frac{6}{15}$; then $\frac{6 \div 3}{15 \div 3} = \frac{2}{5}$

$\frac{2}{5}$ is in lowest terms



ENTER The Ladder, Day 2:

Let's Use the Ladder for LCM, GCF and Simplifying Fractions!

① **WRITE** the two numbers on one line.

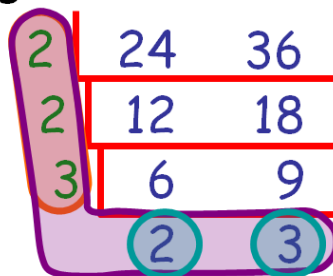
② **DRAW THE L SHAPE**

③ **DIVIDE** out common prime numbers starting with the smallest

④ **LCM** makes an L: $LCM = 2 \cdot 2 \cdot 3 \cdot 2 \cdot 3 = 72$

GCF is down the left side: $GCF = 2 \cdot 2 \cdot 3 = 12$

Simplified fraction is on the bottom $\frac{24}{36} = \frac{2}{3}$



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Let's try one together: Find the GCF and write this fraction in its simplest form: $\frac{12}{96}$



1. **WRITE** the two numbers on one line, making sure the numerator is on the left and the denominator is on the right

2. **DRAW THE L SHAPE**

3. **DIVIDE** out common prime numbers starting with the smallest

4. **GCF** is the product of the numbers on the left side $GCF =$

5. **Simplified fraction** is on the bottom:



YOU GOT THIS:

a) Find the GCF and write this fraction in its simplest form: $\frac{45}{75}$

1. **WRITE** the two numbers on one line, making sure the numerator is on the left and the denominator is on the right
2. **DRAW THE L SHAPE**
3. **DIVIDE** out common prime numbers starting with the smallest
4. **GCF** is the product of the numbers on the left side $GCF =$
5. **Simplified fraction** is on the bottom:

b) Find the GCF and write this fraction in its simplest form: $\frac{240}{280}$

1. **WRITE** the two numbers on one line, making sure the numerator is on the left and the denominator is on the right
2. **DRAW THE L SHAPE**
3. **DIVIDE** out common prime numbers starting with the smallest
4. **GCF** is the product of the numbers on the left side $GCF =$
5. **Simplified fraction** is on the bottom: